

Edward R Valstar

List of Publications by Year in descending order

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71
papers

2,773
citations

172457

29
h-index

175258

52
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71
all docs

71
docs citations

71
times ranked

1515
citing authors

#	ARTICLE	IF	CITATIONS
1	Migration behaviour of 2 clinically excellent cementless stems with different design rationales: 5-year follow-up of a randomised RSA-study. <i>HIP International</i> , 2022, 32, 747-758.	1.7	2
2	Long-term migration of a cementless stem with different bioactive coatings. Data from a "prime"RSA study: lessons learned. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2020, 91, 660-668.	3.3	6
3	Equivalent 2-year stabilization of uncemented tibial component migration despite higher early migration compared with cemented fixation: an RSA study on 360 total knee arthroplasties. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2019, 90, 172-178.	3.3	26
4	Migration and clinical outcome of mobile-bearing versus fixed-bearing single-radius total knee arthroplasty. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2018, 89, 190-196.	3.3	16
5	Peri-prosthetic tissue cells show osteogenic capacity to differentiate into the osteoblastic lineage. <i>Journal of Orthopaedic Research</i> , 2017, 35, 1732-1742.	2.3	1
6	Palacos compared to Palamed bone cement in total hip replacement: a randomized controlled trial. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2016, 87, 473-478.	3.3	9
7	Structural and mechanical characterisation of the peri-prosthetic tissue surrounding loosened hip prostheses. An explorative study. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 62, 456-467.	3.1	8
8	Innate immune response and implant loosening: Interferon gamma is inversely associated with early migration of total knee prostheses. <i>Journal of Orthopaedic Research</i> , 2016, 34, 121-126.	2.3	3
9	A fluoroscopy-based planning and guidance software tool for minimally invasive hip refixation by cement injection. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2016, 11, 281-296.	2.8	4
10	Inhibition of GSK3 β Stimulates BMP Signaling and Decreases <i>SOST</i> Expression Which Results in Enhanced Osteoblast Differentiation. <i>Journal of Cellular Biochemistry</i> , 2015, 116, 2938-2946.	2.6	17
11	Waterjet cutting of periprosthetic interface tissue in loosened hip prostheses: An in vitro feasibility study. <i>Medical Engineering and Physics</i> , 2015, 37, 245-250.	1.7	13
12	Numerical optimization of alignment reproducibility for customizable surgical guides. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2015, 10, 1567-1578.	2.8	2
13	Early subsidence of shape-closed hip arthroplasty stems is associated with late revision. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2015, 86, 575-585.	3.3	62
14	The sense of biomechanical studies in orthopaedics: A discussion on a recent study published in <i>Injury</i> . <i>Injury</i> , 2015, 46, 2078-2079.	1.7	1
15	Evaluation of automated statistical shape model based knee kinematics from biplane fluoroscopy. <i>Journal of Biomechanics</i> , 2014, 47, 122-129.	2.1	34
16	Measuring polyethylene wear in total knee arthroplasty by RSA: Differences between weight-bearing and non-weight-bearing positioning. <i>Journal of Orthopaedic Research</i> , 2014, 32, 613-617.	2.3	12
17	Mechanical properties of human bone-implant interface tissue in aseptically loose hip implants. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 38, 59-68.	3.1	23
18	Fixation of High-Flexion Total Knee Prostheses: Five-Year Follow-up Results of a Four-Arm Randomized Controlled Clinical and Roentgen Stereophotogrammetric Analysis Study. <i>Journal of Bone and Joint Surgery - Series A</i> , 2013, 95, e141.	3.0	30

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19	A Titanium Plasma-Sprayed Cup with and without Hydroxyapatite-Coating: A Randomised Radiostereometric Study of Stability and Osseointegration. <i>HIP International</i> , 2013, 23, 33-39.	1.7	11
20	Shaping Patient Specific Surgical Guides for Arthroplasty to Obtain High Docking Robustness. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2013, 135, .	2.9	4
21	5-year clinical and radiostereometric analysis (RSA) follow-up of 39 CUT femoral neck total hip prostheses in young osteoarthritis patients. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2012, 83, 334-341.	3.3	20
22	Good Diagnostic Performance of Early Migration as a Predictor of Late Aseptic Loosening of Acetabular Cups. <i>Journal of Bone and Joint Surgery - Series A</i> , 2012, 94, 874-880.	3.0	65
23	The beneficial effect of hydroxyapatite lasts. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2012, 83, 135-141.	3.3	41
24	The Exeter femoral stem continues to migrate during its first decade after implantation. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2012, 83, 129-134.	3.3	50
25	Radiostereometry and new prostheses. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2012, 83, 103-104.	3.3	10
26	Early proximal migration of cups is associated with late revision in THA. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2012, 83, 583-591.	3.3	123
27	RSA prediction of high failure rate for the uncoated Interax TKA confirmed by meta-analysis. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2012, 83, 142-147.	3.3	26
28	Early migration of tibial components is associated with late revision. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2012, 83, 614-624.	3.3	159
29	Integrated assessment techniques for linking kinematics, kinetics and muscle activation to early migration: A pilot study. <i>Gait and Posture</i> , 2012, 36, 394-398.	1.4	7
30	A level-set-based large sliding contact algorithm for easy analysis of implant positioning. <i>International Journal for Numerical Methods in Engineering</i> , 2012, 89, 1317-1336.	2.8	2
31	AQUILA: assessment of quality in lower limb arthroplasty. An expert Delphi consensus for total knee and total hip arthroplasty. <i>BMC Musculoskeletal Disorders</i> , 2011, 12, 173.	1.9	30
32	RSA and Registries: The Quest for Phased Introduction of New Implants. <i>Journal of Bone and Joint Surgery - Series A</i> , 2011, 93, 62-65.	3.0	122
33	Combined surface and volume processing for fused joint segmentation. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2010, 5, 263-273.	2.8	2
34	Visual Analysis of Multi-Joint Kinematic Data. <i>Computer Graphics Forum</i> , 2010, 29, 1123-1132.	3.0	13
35	The effect of injectable biocompatible elastomer (PDMS) on the strength of the proximal fixation of endovascular aneurysm repair grafts: An in vitro study. <i>Journal of Vascular Surgery</i> , 2010, 52, 152-158.	1.1	13
36	PS8. The Effect of Injectable Biocompatible Elastomer (PDMS) on the Strength of the Proximal Fixation of EVAR-grafts. <i>Journal of Vascular Surgery</i> , 2010, 51, 24S.	1.1	1

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37	Effect of rotator cuff dysfunction on the initial mechanical stability of cementless glenoid components. <i>Medical and Biological Engineering and Computing</i> , 2009, 47, 507-514.	2.8	9
38	Computer assisted versus conventional cemented total knee prostheses alignment accuracy and micromotion of the tibial component. <i>International Orthopaedics</i> , 2009, 33, 1255-1261.	1.9	29
39	Fluoroscopic Roentgen stereophotogrammetric analysis (FRSA) to study three-dimensional stent graft dynamics. <i>Journal of Vascular Surgery</i> , 2009, 50, 407-412.	1.1	2
40	Co-contraction in RA patients with a mobile bearing total knee prosthesis during a step-up task. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2008, 16, 734-740.	4.2	11
41	Transepicondylar axis accuracy in computer assisted knee surgery: A comparison of the CT-based measured axis versus the CAS-determined axis. <i>Computer Aided Surgery</i> , 2008, 13, 200-206.	1.8	34
42	Accurate Detection of Stent-Graft Migration in a Pulsatile Aortic Model Using Roentgen Stereophotogrammetric Analysis. <i>Journal of Endovascular Therapy</i> , 2007, 14, 30-38.	1.5	7
43	Clinical Validation of Model-based RSA for a Total Knee Prosthesis. <i>Clinical Orthopaedics and Related Research</i> , 2007, 464, 205-209.	1.5	79
44	Assessment of three-dimensional stent-graft dynamics by using fluoroscopic roentgenographic stereophotogrammetric analysis. <i>Journal of Vascular Surgery</i> , 2007, 46, 773-779.	1.1	14
45	Clinical validation of model-based RSA for a total knee prosthesis. <i>Clinical Orthopaedics and Related Research</i> , 2007, 464, 205-9.	1.5	51
46	Effects of ligament sectioning on the kinematics of the distal tibiofibular syndesmosis: A radiostereometric study of 10 cadaveric specimens based on presumed trauma mechanisms with suggestions for treatment. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2006, 77, 531-540.	3.3	99
47	Model-based RSA of a Femoral Hip Stem Using Surface and Geometrical Shape Models. <i>Clinical Orthopaedics and Related Research</i> , 2006, 448, 92-97.	1.5	53
48	The History and Future of Radiostereometric Analysis. <i>Clinical Orthopaedics and Related Research</i> , 2006, 448, 10-21.	1.5	105
49	Early Migration of the Tibial Component of the Buechel-Pappas Total Ankle Prosthesis. <i>Clinical Orthopaedics and Related Research</i> , 2006, 448, 146-151.	1.5	19
50	Radiostereometric Analysis in Orthopaedic Surgery. <i>Clinical Orthopaedics and Related Research</i> , 2006, 448, 2.	1.5	21
51	Peripatite May Not Improve Micromotion of Knee Prostheses in Rheumatoid Arthritis. <i>Clinical Orthopaedics and Related Research</i> , 2006, 448, 122-128.	1.5	15
52	Roentgen Stereophotogrammetric Analysis: An Accurate Tool to Assess Stent-Graft Migration. <i>Journal of Endovascular Therapy</i> , 2006, 13, 468-475.	1.5	9
53	Increased muscle activity to stabilise mobile bearing knees in patients with rheumatoid arthritis. <i>Knee</i> , 2005, 12, 177-182.	1.6	7
54	Marker Configuration Model-Based Roentgen Fluoroscopic Analysis. <i>Journal of Biomechanics</i> , 2005, 38, 893-901.	2.1	66

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55	Kinematics before and after reconstruction of the anterior syndesmosis of the ankle. Monthly Notices of the Royal Astronomical Society: Letters, 2005, 76, 713-720.	3.3	27
56	Comparison of micromotion in mobile bearing and posterior stabilized total knee prostheses. Monthly Notices of the Royal Astronomical Society: Letters, 2005, 76, 353-361.	3.3	42
57	Guidelines for standardization of radiostereometry (RSA) of implants. Monthly Notices of the Royal Astronomical Society: Letters, 2005, 76, 563-572.	3.3	457
58	Influence of Cement Viscosity and Cement Mantle Thickness on Migration of the Exeter Total Hip Prosthesis. Journal of Arthroplasty, 2005, 20, 521-528.	3.1	31
59	Letters to the Editor: Relationship Between Motion Velocity and Rhythm. Clinical Orthopaedics and Related Research, 2004, 419, 316.	1.5	1
60	Evaluation of humeral head replacements using time-action analysis. Journal of Shoulder and Elbow Surgery, 2003, 12, 152-157.	2.6	24
61	Kinematics of the distal tibiofibular syndesmosis. Acta Orthopaedica, 2003, 74, 337-343.	1.4	93
62	External rotation stress imaging in syndesmotic injuries of the ankle: Comparison of lateral radiography and radiostereometry in a cadaveric model. Acta Orthopaedica, 2003, 74, 201-205.	1.4	66
63	Kinematics of the distal tibiofibular syndesmosis. Acta Orthopaedica, 2003, 74, 337-343.	1.4	45
64	Biomechanical Evaluation of the Elbow Using Roentgen Stereophotogrammetric Analysis. Clinical Orthopaedics and Related Research, 2002, 396, 100-105.	1.5	14
65	Micromotion of the Souter-Strathclyde total elbow prosthesis in patients with rheumatoid arthritis. Acta Orthopaedica, 2002, 73, 264-272.	1.4	28
66	Factors associated with excessive migration in bone impaction hip revision surgery. Journal of Arthroplasty, 2002, 17, 826-833.	3.1	31
67	The use of Roentgen stereophotogrammetry to study micromotion of orthopaedic implants. ISPRS Journal of Photogrammetry and Remote Sensing, 2002, 56, 376-389.	11.1	61
68	Towards computer-assisted surgery in shoulder joint replacement. ISPRS Journal of Photogrammetry and Remote Sensing, 2002, 56, 326-337.	11.1	6
69	Fast and accurate automated measurements in digitized stereophotogrammetric radiographs. Journal of Biomechanics, 1998, 31, 491-498.	2.1	95
70	Velocity effects on the scapulo-humeral rhythm. Clinical Biomechanics, 1998, 13, 593-602.	1.2	44
71	The Effect of Hydroxyapatite on the Micromotion of Total Knee Prostheses. A Prospective, Randomized, Double-Blind Study*. Journal of Bone and Joint Surgery - Series A, 1998, 80, 1665-72.	3.0	110